

M F Z Kadir

List of Publications by Citations

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89
papers

3,265
citations

35
h-index

54
g-index

89
ext. papers

4,014
ext. citations

3.5
avg, IF

6.22
L-index

#	Paper	IF	Citations
89	A conceptual review on polymer electrolytes and ion transport models. <i>Journal of Science: Advanced Materials and Devices</i> , 2018 , 3, 1-17	4.2	260
88	Plasticized chitosan/PVA blend polymer electrolyte based proton battery. <i>Electrochimica Acta</i> , 2010 , 55, 1475-1482	6.7	218
87	Electrical characterization of corn starch-LiOAc electrolytes and application in electrochemical double layer capacitor. <i>Electrochimica Acta</i> , 2014 , 136, 204-216	6.7	114
86	FTIR studies of plasticized poly(vinyl alcohol)-chitosan blend doped with NH ₄ NO ₃ polymer electrolyte membrane. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011 , 78, 1068-74	4.4	112
85	Hydrogen ion conducting starch-chitosan blend based electrolyte for application in electrochemical devices. <i>Electrochimica Acta</i> , 2015 , 158, 152-165	6.7	107
84	Electrical impedance and conduction mechanism analysis of biopolymer electrolytes based on methyl cellulose doped with ammonium iodide. <i>Ionics</i> , 2016 , 22, 2157-2167	2.7	95
83	Proton conducting polymer electrolyte based on plasticized chitosan/PEO blend and application in electrochemical devices. <i>Optical Materials</i> , 2013 , 35, 1834-1841	3.3	94
82	Electrical properties of proton conducting solid biopolymer electrolytes based on starch-chitosan blend. <i>Ionics</i> , 2014 , 20, 977-999	2.7	86
81	Conductivity and electrical properties of corn starch-chitosan blend biopolymer electrolyte incorporated with ammonium iodide. <i>Physica Scripta</i> , 2014 , 89, 035701	2.6	79
80	NH ₄ NO ₃ as charge carrier contributor in glycerolized potato starch-methyl cellulose blend-based polymer electrolyte and the application in electrochemical double-layer capacitor. <i>Ionics</i> , 2017 , 23, 3429-3453	2.7	78
79	Non suitability of silver ion conducting polymer electrolytes based on chitosan mediated by barium titanate (BaTiO ₃) for electrochemical device applications. <i>Electrochimica Acta</i> , 2019 , 296, 494-507	6.7	71
78	A Promising Polymer Blend Electrolytes Based on Chitosan: Methyl Cellulose for EDLC Application with High Specific Capacitance and Energy Density. <i>Molecules</i> , 2019 , 24,	4.8	68
77	Application of PVA-chitosan blend polymer electrolyte membrane in electrical double layer capacitor. <i>Materials Research Innovations</i> , 2011 , 15, s217-s220	1.9	66
76	Structural and Optical Characteristics of PVA:C-Dot Composites: Tuning the Absorption of Ultra Violet (UV) Region. <i>Nanomaterials</i> , 2019 , 9,	5.4	65
75	Electrical and transport properties of NH ₄ Br-doped cornstarch-based solid biopolymer electrolyte. <i>Ionics</i> , 2015 , 21, 111-124	2.7	65
74	Incorporation of NH ₄ Br in PVA-chitosan blend-based polymer electrolyte and its effect on the conductivity and other electrical properties. <i>Ionics</i> , 2014 , 20, 1235-1245	2.7	60
73	Electrical analysis of amorphous corn starch-based polymer electrolyte membranes doped with LiI. <i>Physica Scripta</i> , 2013 , 88, 025601	2.6	60

72	Innovative method to avoid the reduction of silver ions to silver nanoparticles $\left(\text{Ag}^{\text{+}} \text{to } \text{Ag}^{\text{0}} \right)$ in silver ion conducting based polymer electrolytes. <i>Physica Scripta</i> , 2015 , 90, 035808	2.6	57
71	Fabrication of energy storage EDLC device based on CS:PEO polymer blend electrolytes with high Li ⁺ ion transference number. <i>Results in Physics</i> , 2019 , 15, 102584	3.7	55
70	Biopolymeric electrolyte based on glycerolized methyl cellulose with NH ₄ Br as proton source and potential application in EDLC. <i>Ionics</i> , 2018 , 24, 1651-1662	2.7	45
69	Protonic EDLC cell based on chitosan (CS): methylcellulose (MC) solid polymer blend electrolytes. <i>Ionics</i> , 2020 , 26, 1829-1840	2.7	44
68	Effect of glycerol on EDLC characteristics of chitosan:methylcellulose polymer blend electrolytes. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 8355-8366	5.5	43
67	Effect of ohmic-drop on electrochemical performance of EDLC fabricated from PVA:dextran:NH ₄ I based polymer blend electrolytes. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 3734-3745	5.5	43
66	Structural, thermal, morphological and optical properties of PEO filled with biosynthesized Ag nanoparticles: New insights to band gap study. <i>Results in Physics</i> , 2019 , 13, 102220	3.7	42
65	Fabrication of high performance energy storage EDLC device from proton conducting methylcellulose: dextran polymer blend electrolytes. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 1137-1150	5.5	42
64	Green electrolytes based on dextran-chitosan blend and the effect of NH ₄ SCN as proton provider on the electrical response studies. <i>Ionics</i> , 2018 , 24, 2379-2398	2.7	42
63	The Effect of Plasticization on Conductivity and Other Properties of Starch/Chitosan Blend Biopolymer Electrolyte Incorporated with Ammonium Iodide. <i>Molecular Crystals and Liquid Crystals</i> , 2014 , 603, 73-88	0.5	40
62	Ionic conductivity and dielectric properties of potato starch-magnesium acetate biopolymer electrolytes: the effect of glycerol and 1-butyl-3-methylimidazolium chloride. <i>Ionics</i> , 2016 , 22, 1113-1123	2.7	39
61	High Proton Conducting Polymer Blend Electrolytes Based on Chitosan:Dextran with Constant Specific Capacitance and Energy Density. <i>Biomolecules</i> , 2019 , 9,	5.9	39
60	Increase of metallic silver nanoparticles in Chitosan:AgNt based polymer electrolytes incorporated with alumina filler. <i>Results in Physics</i> , 2019 , 13, 102326	3.7	38
59	Employing of Trukhan Model to Estimate Ion Transport Parameters in PVA Based Solid Polymer Electrolyte. <i>Polymers</i> , 2019 , 11,	4.5	38
58	Structural, Impedance, and EDLC Characteristics of Proton Conducting Chitosan-Based Polymer Blend Electrolytes with High Electrochemical Stability. <i>Molecules</i> , 2019 , 24,	4.8	37
57	Dextran from <i>Leuconostoc mesenteroides</i> -doped ammonium salt-based green polymer electrolyte. <i>Bulletin of Materials Science</i> , 2019 , 42, 1	1.7	37
56	The effect of LiCF ₃ SO ₃ on the complexation with potato starch-chitosan blend polymer electrolytes. <i>Ionics</i> , 2016 , 22, 1647-1658	2.7	37
55	The effect of NH ₄ NO ₃ towards the conductivity enhancement and electrical behavior in methyl cellulose-starch blend based ionic conductors. <i>Ionics</i> , 2017 , 23, 1137-1154	2.7	35

54	Role of nano-capacitor on dielectric constant enhancement in PEO:NH ₄ SCN:xCeO ₂ polymer nano-composites: Electrical and electrochemical properties. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 9283-9294	5.5	35
53	Influence of (hbox {NH}_{4})Br as an ionic source on the structural/electrical properties of dextran-based biopolymer electrolytes and EDLC application. <i>Bulletin of Materials Science</i> , 2020 , 43, 1	1.7	33
52	Reducing the Crystallite Size of Spherulites in PEO-Based Polymer Nanocomposites Mediated by Carbon Nanodots and Ag Nanoparticles. <i>Nanomaterials</i> , 2019 , 9,	5.4	31
51	The study of EDLC device fabricated from plasticized magnesium ion conducting chitosan based polymer electrolyte. <i>Polymer Testing</i> , 2020 , 90, 106714	4.5	31
50	Characteristics of EDLC device fabricated from plasticized chitosan:MgCl ₂ based polymer electrolyte. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 10635-10646	5.5	29
49	Ion Transport Study in CS: POZ Based Polymer Membrane Electrolytes Using Trukhan Model. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	28
48	Protonic Transport Analysis of Starch-Chitosan Blend Based Electrolytes and Application in Electrochemical Device. <i>Molecular Crystals and Liquid Crystals</i> , 2014 , 603, 52-65	0.5	26
47	Electrochemical characterizations and the effect of glycerol in biopolymer electrolytes based on methylcellulose-potato starch blend. <i>Molecular Crystals and Liquid Crystals</i> , 2016 , 627, 220-233	0.5	26
46	Solid-state double layer capacitors and protonic cell fabricated with dextran from <i>Leuconostoc mesenteroides</i> based green polymer electrolyte. <i>Materials Chemistry and Physics</i> , 2020 , 241, 122290	4.4	26
45	Investigation of plasticized ionic conductor based on chitosan and ammonium bromide for EDLC application. <i>Materials Today: Proceedings</i> , 2019 , 17, 490-498	1.4	25
44	Characterization of starch-chitosan blend-based electrolyte doped with ammonium iodide for application in proton batteries. <i>Ionics</i> , 2017 , 23, 681-697	2.7	25
43	Electrochemical characteristics of solid state double-layer capacitor constructed from proton conducting chitosan-based polymer blend electrolytes. <i>Polymer Bulletin</i> , 2021 , 78, 3149-3167	2.4	25
42	Conductivity and transport studies of plasticized chitosan-based proton conducting biopolymer electrolytes. <i>Physica Scripta</i> , 2013 , T157, 014050	2.6	24
41	Electrochemical Characteristics of Glycerolized PEO-Based Polymer Electrolytes. <i>Membranes</i> , 2020 , 10,	3.8	23
40	Ion association as a main shortcoming in polymer blend electrolytes based on CS:PS incorporated with various amounts of ammonium tetrafluoroborate. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 5410-5421	5.5	22
39	Protonic cell performance employing electrolytes based on plasticized methylcellulose-potato starch-NH ₄ NO ₃ . <i>Ionics</i> , 2019 , 25, 559-572	2.7	22
38	Plasticized solid polymer electrolyte based on natural polymer blend incorporated with lithium perchlorate for electrical double-layer capacitor fabrication. <i>Ionics</i> , 2019 , 25, 5473-5484	2.7	21
37	Study of impedance and solid-state double-layer capacitor behavior of proton (H ⁺)-conducting polymer blend electrolyte-based CS:PS polymers. <i>Ionics</i> , 2020 , 26, 4635-4649	2.7	21

36	Chitosan/PEO proton conducting polymer electrolyte membrane doped with NH ₄ NO ₃ . <i>Materials Research Innovations</i> , 2011 , 15, s164-s167	1.9	21
35	Development of Polymer Blends Based on PVA:POZ with Low Dielectric Constant for Microelectronic Applications. <i>Scientific Reports</i> , 2019 , 9, 13163	4.9	20
34	Effect of plasticization on the conductivity and dielectric properties of starch-chitosan blend biopolymer electrolytes infused with NH ₄ Br. <i>Physica Scripta</i> , 2013 , T157, 014051	2.6	20
33	Metal framework as a novel approach for the fabrication of electric double layer capacitor device with high energy density using plasticized Poly(vinyl alcohol): Ammonium thiocyanate based polymer electrolyte. <i>Arabian Journal of Chemistry</i> , 2020 , 13, 7247-7263	5.9	19
32	Synthesis of Porous Proton Ion Conducting Solid Polymer Blend Electrolytes Based on PVA: CS Polymers: Structural, Morphological and Electrochemical Properties. <i>Materials</i> , 2020 , 13,	3.5	19
31	Ion conduction in chitosan-starch blend based polymer electrolyte with ammonium thiocyanate as charge provider. <i>Journal of Polymer Research</i> , 2020 , 27, 1	2.7	16
30	Structural, impedance and electrochemical double-layer capacitor characteristics of improved number density of charge carrier electrolytes employing potato starch blend polymers. <i>Ionics</i> , 2020 , 26, 5773-5804	2.7	15
29	The compatibility of chitosan with divalent salts over monovalent salts for the preparation of solid polymer electrolytes. <i>Results in Physics</i> , 2018 , 11, 826-836	3.7	15
28	The Study of Plasticized Sodium Ion Conducting Polymer Blend Electrolyte Membranes Based on Chitosan/Dextran Biopolymers: Ion Transport, Structural, Morphological and Potential Stability. <i>Polymers</i> , 2021 , 13,	4.5	14
27	Design of potassium ion conducting PVA based polymer electrolyte with improved ion transport properties for EDLC device application. <i>Journal of Materials Research and Technology</i> , 2021 , 13, 933-946	5.5	14
26	Conductivity and Dielectric Studies of Lithium Trifluoromethanesulfonate Doped Polyethylene Oxide-Graphene Oxide Blend Based Electrolytes. <i>Advances in Materials Science and Engineering</i> , 2015 , 2015, 1-10	1.5	13
25	The development of Li ⁺ conducting polymer electrolyte based on potato starch/graphene oxide blend. <i>Ionics</i> , 2017 , 23, 411-425	2.7	12
24	Improving EDLC Device Performance Constructed from Plasticized Magnesium Ion Conducting Chitosan Based Polymer Electrolytes via Metal Complex Dispersion. <i>Membranes</i> , 2021 , 11,	3.8	12
23	Conductivity studies of biopolymer electrolytes based on chitosan incorporated with NH ₄ Br. <i>Physica Scripta</i> , 2013 , T157, 014049	2.6	11
22	Bio-Based Plasticized PVA Based Polymer Blend Electrolytes for Energy Storage EDLC Devices: Ion Transport Parameters and Electrochemical Properties. <i>Materials</i> , 2021 , 14,	3.5	11
21	Impregnation of [Emim]Br ionic liquid as plasticizer in biopolymer electrolytes for EDLC application. <i>Electrochimica Acta</i> , 2021 , 375, 137923	6.7	11
20	Impedance, FTIR and transport properties of plasticized proton conducting biopolymer electrolyte based on chitosan for electrochemical device application. <i>Results in Physics</i> , 2021 , 29, 104770	3.7	10
19	Conduction Mechanism and Dielectric Properties of Solid Biopolymer Electrolyte Incorporated with Silver Nitrate. <i>Advanced Materials Research</i> , 2013 , 701, 115-119	0.5	8

18	Electrical Properties of Starch Based Silver Ion Conducting Solid Biopolymer Electrolyte. <i>Advanced Materials Research</i> , 2013 , 701, 120-124	0.5	7
17	Dielectric Studies of Proton Conducting Polymer Electrolyte Based on Chitosan/PEO Blend Doped with NH ₄ NO ₃ . <i>Advanced Materials Research</i> , 2012 , 488-489, 583-587	0.5	7
16	Impedance, circuit simulation, transport properties and energy storage behavior of plasticized lithium ion conducting chitosan based polymer electrolytes. <i>Polymer Testing</i> , 2021 , 101, 107286	4.5	7
15	Investigation on electrochemical characteristics of maltodextrin [methyl cellulose electrolytes. <i>Molecular Crystals and Liquid Crystals</i> , 2020 , 708, 63-91	0.5	6
14	Plasticized Sodium-Ion Conducting PVA Based Polymer Electrolyte for Electrochemical Energy Storage-EEC Modeling, Transport Properties, and Charge-Discharge Characteristics. <i>Polymers</i> , 2021 , 13,	4.5	6
13	Electrochemical performance of polymer blend electrolytes based on chitosan: dextran: impedance, dielectric properties, and energy storage study. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 14846-14862	2.1	6
12	Plasticized and plasticizer free lithium acetate doped polyvinyl alcohol[chitosan blend solid polymer electrolytes: Comparative studies. <i>Journal of Physics: Conference Series</i> , 2018 , 1123, 012001	0.3	6
11	Design of plasticized proton conducting Chitosan:Dextran based biopolymer blend electrolytes for EDLC application: Structural, impedance and electrochemical studies. <i>Arabian Journal of Chemistry</i> , 2021 , 14, 103394	5.9	6
10	Transport Properties of Chitosan/Peo Blend Based Proton Conducting Polymer Electrolyte. <i>Advanced Materials Research</i> , 2012 , 488-489, 114-117	0.5	5
9	Plasticized Polymer Blend Electrolyte Based on Chitosan for Energy Storage Application: Structural, Circuit Modeling, Morphological and Electrochemical Properties. <i>Polymers</i> , 2021 , 13,	4.5	5
8	Structural and electrochemical studies of proton conducting biopolymer blend electrolytes based on MC:Dextran for EDLC device application with high energy density. <i>AEJ - Alexandria Engineering Journal</i> , 2021 , 61, 3985-3985	6.1	5
7	The Study of Structural, Impedance and Energy Storage Behavior of Plasticized PVA:MC Based Proton Conducting Polymer Blend Electrolytes. <i>Materials</i> , 2020 , 13,	3.5	4
6	Characteristics of Glycerolized Chitosan: NHNO-Based Polymer Electrolyte for Energy Storage Devices with Extremely High Specific Capacitance and Energy Density Over 1000 Cycles. <i>Polymers</i> , 2020 , 12,	4.5	3
5	Non-Faradaic-based supercapacitor fabricated with fish skin gelatin biopolymer electrolyte. <i>Ionics</i> , 2021 , 27, 2219-2229	2.7	3
4	Influence of scan rate on CV Pattern: Electrical and electrochemical properties of plasticized Methylcellulose: Dextran (MC:Dex) proton conducting polymer electrolytes. <i>AEJ - Alexandria Engineering Journal</i> , 2021 , 61, 5919-5919	6.1	2
3	The study of impedance, ion transport properties, EEC modeling, dielectric and electrochemical characteristics of plasticized proton conducting PVA based electrolytes. <i>Journal of Materials Research and Technology</i> , 2022 , 17, 1976-1985	5.5	1
2	Structural and energy storage behavior of ion conducting biopolymer blend electrolytes based on methylcellulose: Dextran polymers. <i>AEJ - Alexandria Engineering Journal</i> , 2022 , 61, 9273-9285	6.1	1
1	Electrical and structural characteristics of fish skin gelatin as alternative biopolymer electrolyte. <i>Physica Scripta</i> , 2022 , 97, 055003	2.6	0

